**Homework 42H** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**HL, SAA, ASA** Period:\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle!**Direction: Is it possible to prove that the triangles are congruent? If so, state the postulate or theorem you would use.

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| 1. **State the third congruence that is needed to prove that** Δ***ABC*** ≅Δ***XYZ and the postulate/theorem needed to prove congruency of the triangles.***      1. **Given:** ∠*C* ≅ ∠*Z, AC*  ≅ XZ \_\_?\_\_ ≅ \_\_?\_ 2. **Given:** ∠*B* ≅ ∠*Y*, *AB*  ≅ XY, \_\_?\_\_ ≅ \_\_?\_\_ 3. **Given**: BC ≅ YZ , ∠*B* ≅ ∠*Y* \_\_?\_\_ ≅ \_\_?\_\_ |

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| 1. Write a two-column proof   **GIVEN**: WU YV, XU ZV, WX ≅ YZ  **PROVE**: Δ*WXU* ≅ Δ*YZV* |

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| 1. Write a two column proof   **GIVEN**: ∠*B* ≅ ∠*D*, ∠*DAE* ≅ ∠*BEA*  **PROVE**: Δ*ABC* ≅ Δ*EDC* |

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| 1. Write a two column proof   *QS*  *PR*    **Given:**  PS RS QR RS  **Prove:** Δ*PRS* ≅ Δ*QSR* |

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| 1. **Given:** *|| ,* ∠*ADB* ≅∠ *CBD*   *DC*  *AB*  **Prove:** Δ*ABD* ≅Δ*CDB* |